

# Infiltration Reduction Plan

## Longparish

August 2025  
Version 6



from  
**Southern  
Water** 

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# Document Control

Version	Date
1	October 2014
V2	January 2015
V3	April 2016
V3.1	August 2021
V4	January 2024
V5	July 2024
V6	August 2025

## Glossary

AMP – Asset Management Programme  
CCTV - Closed-circuit television  
EA - Environment Agency  
GW – Ground Water  
IRP - Infiltration Reduction Plans  
l/s - litres per second  
MH – Manhole  
ODI – Customer Outcome Delivery Incentive  
RPS - Regulatory Position Statement  
SW – Southern Water  
WaSC - Water and Sewerage Companies  
WC – Water Closet  
WPS - Wastewater Pumping Station  
WTW - Wastewater Treatment Works

# 1. Background

This Infiltration Reduction Plan (IRP) for Longparish in the Barton Stacey catchment has been prepared in response to the Environment Agency's (EA) Regulatory Position Statement (RPS). Southern Water has been carrying out work for many years to survey and repair sources of infiltration in the catchment for Barton Stacey Wastewater Treatment Works (WTW) in Hampshire.

Figure 1 shows flows to Barton Stacey WTW. Longparish comprises the hamlets of Forton, Middleton, West Aston and East Aston, which have been combined into a single IRP because they are on the same sewerage network. The map on the following page shows that flows from Longparish are joined by flows from multiple villages upstream, including St Mary Bourne. These flows gravitate to Longparish wastewater pumping station (WPS), where they are joined by pumped flows from Forton WPS. The resultant flows are then pumped to Barton Stacey wastewater treatment works (WTW) south-east of Andover. Groundwater infiltration into the sewerage system in any of these villages contributes to an increase in the potential for flooding in the villages downstream.

The repairs carried out by SW improve the integrity of the sewerage system. SW has been working with the following organisations and is dependent on their support to achieve the objective of reducing non-sewage flows into the sewers.

- Environment Agency (EA)
- Hampshire County Council
- Test Valley Borough Council
- Longparish Parish Council

Southern Water has consulted with representatives of these parties as part of meetings with the local councils.

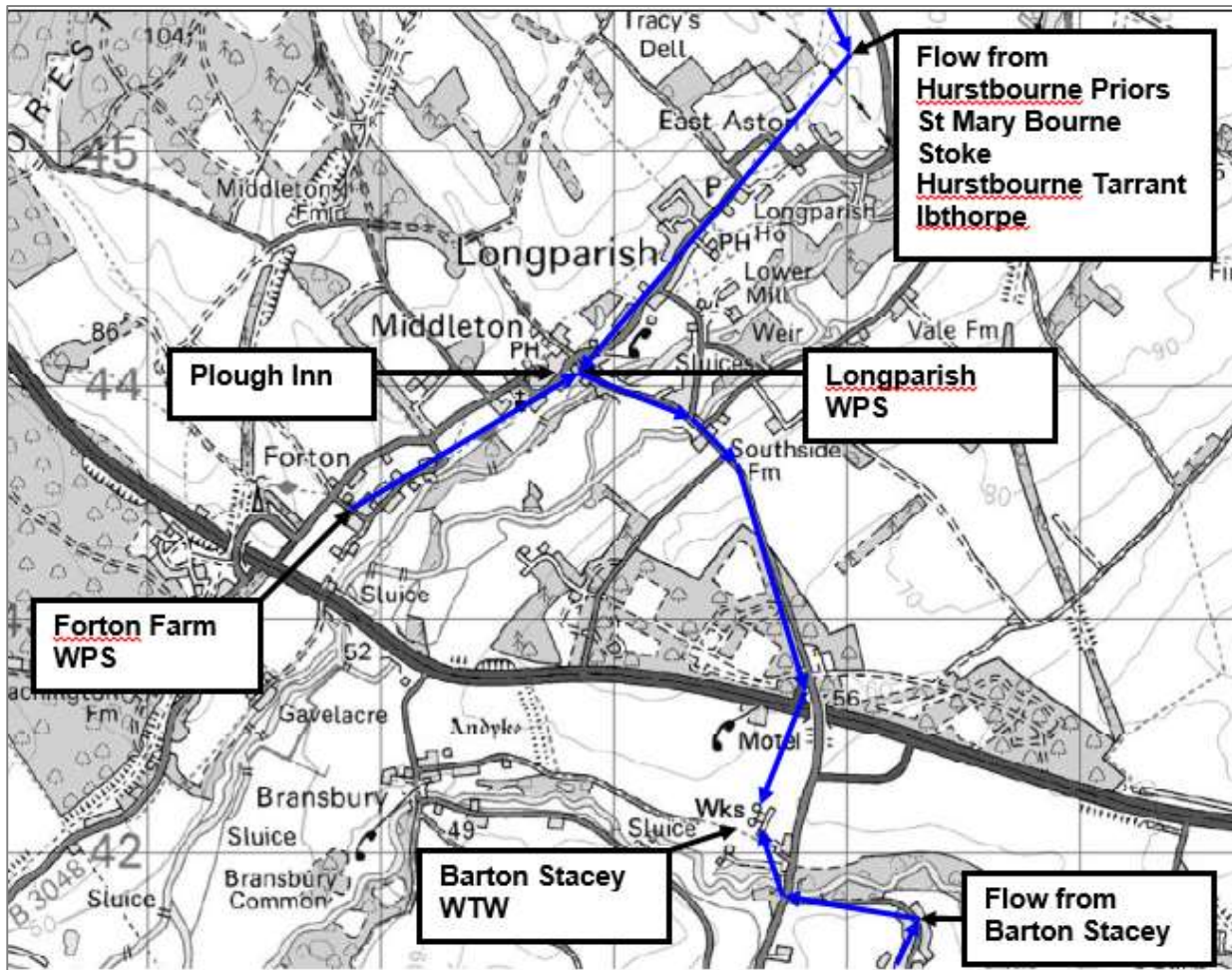


Figure 1.1 - Representation of the sewerage system for the Barton Stacey to Barton Stacey WTW

## 2. Groundwater Infiltration at Longparish

### 2.1. The significance of groundwater infiltration.

Longparish is a village in Southern Water's operating area where, during excessively wet winters, customers have been inconvenienced by the effects of groundwater infiltration into sewers. Such effects can include flooding and restricted toilet use (RTU).

Southern Water strives to maintain services for customers by a programme of investigation, repair, maintenance and mitigation. Mitigation measures have included the use of tankers and groundwater treatment. Such mitigation measures are not sustainable, so during the last ten years SW has invested in carrying out improvements to the integrity of the sewers and manholes in the vicinity of Longparish in order to minimise the occasions in which mitigation measures are required.

### 2.2. What would happen if Southern Water did not take action?

Despite the significant groundwater flow through the valley during periods of high groundwater, incidents of sewer flooding have been relatively infrequent. Table 2.1 below shows reported incidents of sewer flooding since 2012.

It is noted that in 2023/24 due to the wettest winter and highest groundwater recorded a greater number of external flooding incidents were reported than previous years.

**Table 2.1 – Historic Sewer Flooding Incidents in Longparish**

Year	External Flooding (properties / gardens)	External Flooding (Highways / other)	Internal Flooding	Restricted Toilet Use	Total
2012_2013	2	0	0	2	4
2013_2014	2	2	0	2	6
2014_2015	0	0	0	0	0
2015_2016	0	0	0	0	0
2016_2017	0	0	0	0	0
2017_2018	0	0	0	0	0
2018_2019	0	0	0	0	0
2019_2020	0	0	0	0	0
2020_2021	0	0	0	0	0
2021_2022	0	0	0	0	0
2022_2023	0	0	0	0	0
2023_2024	1	3	0	0	4
2024_2025	2	0	0	0	0
<b>Totals</b>	<b>7</b>	<b>5</b>	<b>0</b>	<b>4</b>	<b>14</b>

The two external floodings in 2025 were during heavy rainfall coinciding with high groundwater

## 3. Investigation & repairs

### 3.1. Outline Plans to Investigate Sources of Infiltration

The Generic Plan describes Southern Water's Infiltration Reduction process. The specifics of the investigations and repairs at Longparish are captured in Section 3.2 below, and includes the following elements:

- Manhole Inspections and CCTV Surveys
- Flow Monitoring Surveys
- Manhole and Sewer Repairs
- Follow-Up Surveys and Repairs

### 3.2. Investigation and Repairs in the Longparish

Groundwater infiltration into sewers has been a long-running issue for Longparish due to the geology and potential for groundwater to rise significantly in winter months. SW has been making significant investment over a number of years to minimise infiltration and the need for mitigation measures such as tankering.

In addition to work on sewers directly serving Longparish sealing work has been carried out on the sewer system serving St Mary Bourne which is beneficial for Longparish as St Mary Bourne's flows are also pumped to Longparish. The investigations and repairs followed the process set out in the Generic Plan. The timing and status of each step is in Table 3.1 below.

**Table 3.1 – Summary of Survey and Repairs at Longparish**

Step.	Description	Approx Date	Status
1	Repairs at Longparish  788m of sewers repaired	November 2011 – December 2011	Complete
2	Manhole lifting followed by CCTV Investigation	May - June 2014	Complete
3.	Determination of required repairs  320m of sewers surveyed.	Autumn 2014	Complete
4.a.	Repairs at Longparish  53m of sewers repaired and 1 manhole sealed  [refer plans in Appendix A]	November 2015 - February 2016	Complete



Step.	Description	Approx Date	Status
4.b.	Repairs at Forton  131m of sewers repaired and 2 manholes sealed  [refer to plans in Appendix A]	November 2015 – February 2016	Complete
5	Ongoing monitoring	As required	Instigate when trigger levels at St Mary Bourne are breached.
6	CCTV Investigations	December 2017 - January 2018	Complete
7	Further repairs identified and delivered	July 2016 - May 2018	Complete
8	Electroscan surveys	2023/24	Completed
9	Installation of sewer level monitors at strategic points	2023	Completed
10	Review of sewer level data to identify blockages and infiltration areas to target	From 2023	Ongoing
11	Continue with targeted sealing work informed by surveys	From April 2025	Planned

The long term monitoring analysis reveals that the repairs have provided resilience against an additional 3-4m of groundwater (measured at Vernham Dean borehole). The extent of the repairs is shown in the plans in Appendix A.

Despite the repairs completed SW acknowledge that there remains a risk of infiltration to the sewerage system particularly at higher groundwater levels where groundwater may leak into the extensive private sewer network.

In addition to physical investigations on site, SW has instigated a long-term monitoring programme in critical catchments, which now includes the Longparish sub-catchment.

Further electroscan surveys to identify potential leaking joints in structurally sound sewers has been completed and the results of these surveys will inform the next stage of sewer sealing which will be undertaken after April 2025.

## 4. Mitigation Measures

### 4.1. Circumstances that lead to Mitigation

Since 2013, SW has made significant investment to reduce infiltration and to protect specific properties at risk of flooding, with the objective of reducing the frequency of mitigation measures. However, in very high and prolonged groundwater events infiltration of groundwater into the sewerage system can still occur and there needs to be a plan around mitigating the impact on customers, properties and the environment.

Historical incidents inform us which parts of the system will be impacted and what mitigation measures have worked most effectively. Based on historic experience mitigation measures could be expected to be required when the groundwater level at Vernham Dean borehole reaches 121.4m. However, to allow time for investigation and preparation, SW is using a lower groundwater 'trigger level' in the winter planning report. A trigger level of 120m is being used. The requirement for tankering will be driven by levels in the manholes locally.

Figure 4.1 shows the groundwater level at Vernham Dean BH over the last ten years. The levels at which mitigation measures are typically required during this period are also shown. The repair programme in Longparish, including Forton, was completed in February 2018, whilst repairs at St Mary Bourne are ongoing in summer 2024. It can be seen that due to the wet summer into winter 2023 the groundwater levels in winter 23/24 are comparable to the highest level recorded than in any previous year but significantly the groundwater remained higher for longer than any other year.

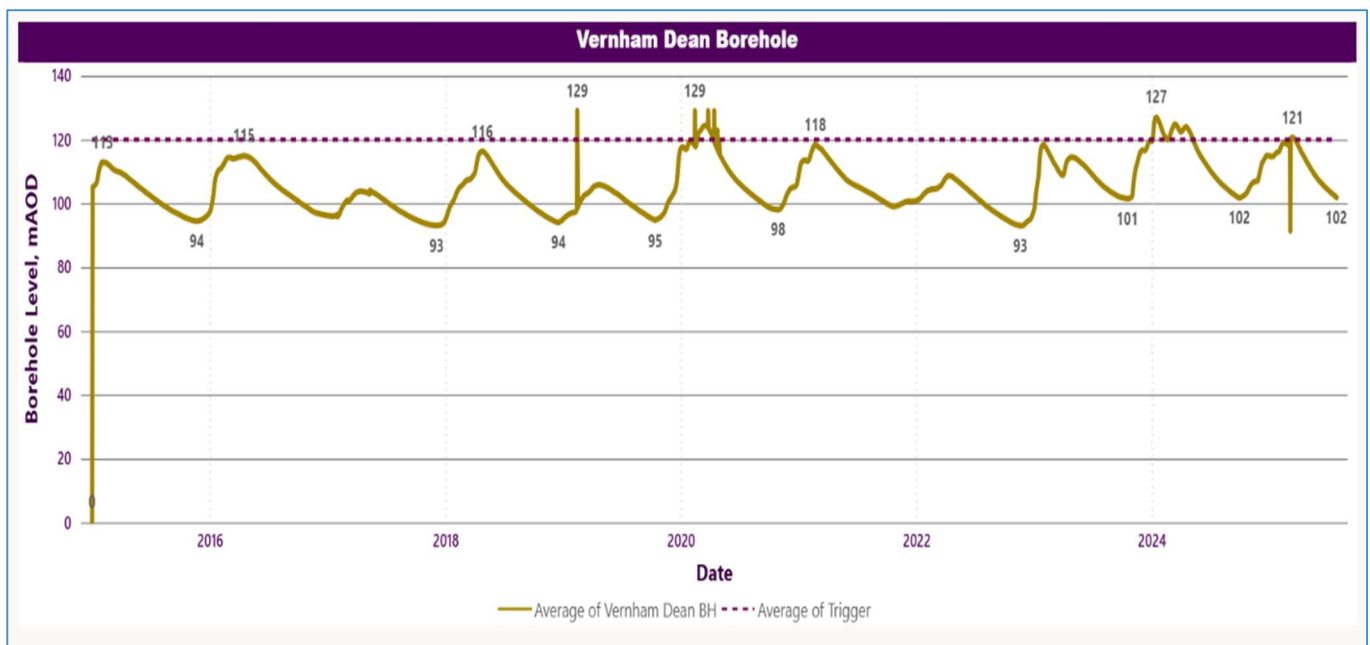


Figure 4.1 - Groundwater levels from 2015 to 2025

## **4.2. Mitigation measures**

The mitigation measures we use in Longparish are to extract flow from the sewers by placing tankers at two strategic points in the village and to transport this flow to a wastewater treatment works for full treatment. The locations of these are given in Appendix B. We have found that this approach does reduce the flow in the sewers to allow a sewerage service to be provided, we also recognise that this in itself is disruptive and therefore we will continue to deliver more sustainable solutions such as sealing leaking sewers and drains.

Historically and in particular in the high groundwater season of 2013/14, emergency discharges via treatment processes from the sewer to the local watercourse were installed to reduce flows in the sewerage system. Southern Water do not propose to use this method of flow control in the future. Tankering to remove flows from the sewer network was required in 2023/24 and 2024/25.

## **4.3. Steps to prevent mitigation**

The Generic Plan details the typical activities that Southern Water undertakes to minimise the requirement for mitigation measures. Since 2011, SW has undertaken extensive surveys and repaired sewers and manholes where infiltration had been found, the extent of the work is shown in Appendix A.

## **4.4. 3rd Party Communications about mitigation**

Since the start of the Infiltration Reduction Programme in 2013, Southern Water has been active in communicating with stakeholders and customers about planned and completed work to improve the integrity of the sewerage system. Stakeholders have been kept informed of progress on survey and sealing work via emails and or face-to-face meetings.

SW attends meetings with a number of local groups. In particular meetings with the EA and local councils have been influential in helping to shape the IRP. During flooding incidents SW have representatives on site who visit affected customers to help them. The latest version of the IRP approved by the EA, will be published on SW's website.

SW updates stakeholders about completed and planned work, as part of stakeholder meetings with the local councils.

## 5. Options To Reduce Infiltration

### 5.1. Sewer Rehabilitation Programme

It is recognised that infiltration reduction is an on-going process. In recent years, SW has invested over £300,000 in surveys and repairs in Longparish, including Forton.

The majority of pipes where infiltration has been found are structurally sound but the joints between pipes have weakened over time and have the potential to allow groundwater in. Traditional CCTV surveys of the sewers does not readily identify leaking joints so we have undertaken further surveys of the system by a technique called electroscan which can identify joints which have the potential to leak in otherwise structurally sound pipework.

The survey locations are shown in Appendix A and any remedial work identified from these will be undertaken early in our next Business Planning period 2025-2030. Our work in other areas with similar issues have shown that to resolve the issue work will be required on both public and private systems. Any work on private systems will need to be approved by the asset owner.

Longparish receives flow from St Marybourne, it is anticipated that with the extensive work being undertaken to seal sewers in that village there will be a significant improvement in the performance of the Longparish system.

**Table 6.1 below summaries the work undertaken in Longparish since 2014**

Action	Km of sewer
Length Surveyed	2.815
Length with no work required	1.33
Length Sealed	1.07
Length to be sealed	0.2
Manholes sealed	2
Manholes to be sealed	2

**Table 6.2 below summaries the work undertaken in Longparish since 2014**

Year	Sewers Surveyed (km)	Sewers Sealed (km)	Manholes repaired
Pre-2014	1.2	0.7	0
2014	0.5	0	0
2015	0.1	0	0
2016	0	0.2	1
2017	0.3	0.1	1
2018	0.5	0	0
2019	0	0.1	0
2020	0	0	0
2021	0	0	0
2022	0	0	0
2023	0	0	0
2024	0	0	0
2025	0.215	0	0

## 5.2. Property Level Protection

A Non-Return Valve (NRV) is a mechanism by which sewerage is allowed to flow in one direction only; this can be useful for preventing sewage back-flowing from a main sewer into a lateral sewer. NRVs are particularly relevant where properties are at a low elevation relative to the main sewer. In the event of the main sewer becoming surcharged, the NRV will stop the lateral becoming surcharged, especially for long periods. In these circumstances the lateral behind the NRV will need to be emptied by a tanker at least once a day to remove the effluent from the property.

NRV's have always been part of SW's armoury for dealing with the effects of infiltration. However, as well as the topography of the area, they are only effective if there is no significant infiltration in the lateral to which they are fitted.

The potential for NRV's to be installed in Longparish has been considered. As a result, work has been carried out, including the installation of an NRV in a lateral drain of a property in February 2015. Additionally, the potential for future use of NRV's will be investigated, if it is deemed appropriate, now that the current repair work has been completed.

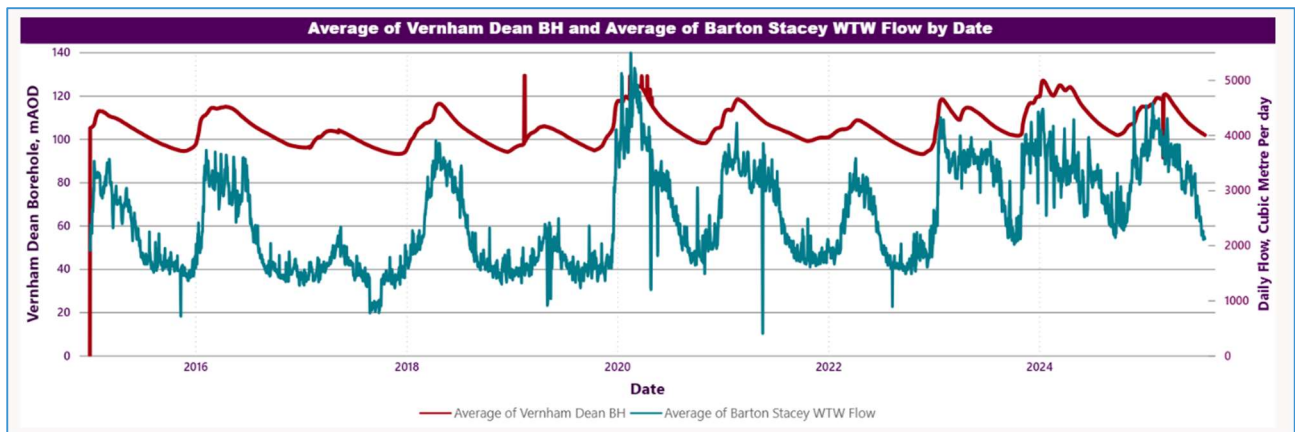
## 5.3. Pumping Stations

In order to minimise the effects of infiltration, SW is continuing to ensure that required discharge rates are maintained at pumping stations. At Longparish WPS, the pumps were replaced/refurbished in 2014. Pump motors were replaced more recently; one in July 2015 and one in February 2016. The impellers were changed in 2025 with an increase in pass forward flow of around 4% to 55 l/s. The pumping station will receive a pre groundwater season health check to ensure that it is operating to the best of its ability prior to start of groundwater season.

## 5.4. Monitoring

SW has set up a monitoring programme using current electronic data (e.g. EA borehole level data via telemetry links). In January 2015, SW commenced a weekly review of the ten locations in its region which are most prone to sewer flooding. St Mary Bourne was added to this programme in 2015, and Longparish, including Forton, were added in 2016. The monitoring uses 'real time' groundwater levels from local boreholes to predict when it might be necessary to respond to mitigate the effects of flooding. The trigger levels are not the levels at which tankering or Groundwater treatment started historically; when a trigger level is breached SW increases activity to ensure that the sewers are running clearly. Levels in the manholes are also checked, as it is this, not groundwater levels that determine when excess flow needs to be removed from the sewers.

The graph below, Figure 5.1, is an example of those used for predicting the earliest, average, and latest dates for when the trigger levels are forecast to be breached. This graph shows groundwater levels (in blue) and an indication of flows at the treatment works (in grey).



**Figure 5.1 – Forecasting of Trigger Dates**

SW repeats this monitoring each winter. Reporting commences mid-September when ground water levels are generally at their lowest, reports are run at monthly intervals initially, increasing to fortnightly, then weekly to suit the rise of groundwater levels. This way the increase in levels is monitored so that there are no surprises should the trigger level for action be attained. The forecast dates for reaching trigger levels is shared with the EA when it is produced.

The above approach is used during periods of rising groundwater. However it is important for SW to continue to monitor the integrity of the sewers through the drier months of the year.

In addition to the groundwater flooding forecasts explained above, SW is also looking at longer-term trends to monitor the effectiveness of the completed rehabilitation work. Figure 5.2 shows the groundwater levels at Vernham Dean borehole plotted against calculated flows at Longparish WPS.



### Figure 5.2 – Long Term Monitoring (Jan 2010 to Nov 2015)

Figure 5.2 quantitatively illustrates how flow varies with groundwater levels. It is reasonable that as groundwater levels increase, the rate of infiltration increases. Therefore Figure 5.2 can be used to assess how effective repairs are at reducing infiltration. Two distinct periods are outlined: Jan 2011 – Nov 2011 (before repairs in the Barton Stacey catchment), and Nov 2014 – Jan 2016 (after the repairs). It is important to note that relevant repairs include the following:

- Repairs carried out in Longparish from November 2011 – December 2011.
- Repairs carried out in St Mary Bourne from October 2013 – October 2014 (see St Mary Bourne IRP for more information).

Lines A and B in Figure 5.2 show how values of flow for a given groundwater level vary before and after the repairs. The difference in groundwater level between Lines A and B is approximately 3-4m. In other words, for a given groundwater level, the corresponding flow is lower after the repairs. This suggests that repair work has been effective in reducing infiltration and groundwater now needs to attain a higher level before causing the same increase in flows.

## 6. Action Plans

A significant amount has been achieved in the Longparish catchments in the last ten years. Some actions are ongoing which reflects the continuous improvement process for dealing with infiltration due to groundwater. To make it easy to track progress, the following tables set out the actions to reduce infiltration and also to mitigate the effects of it, if the infiltration cannot be controlled at economic cost. Tables 6.1 and 6.2 cover the actions by SW and by other parties, respectively, to reduce infiltration. Tables 6.3 and 6.4 cover mitigation of the effects of flooding (Communication and other activities).

SW is committed to continuing to pursue infiltration to reduce the frequency of Groundwater treatment. This IRP describes the work that has been done by SW to improve the situation. In addition, it also describes what is being done to monitor flows, the 'winter preparation' work to be carried out to ensure assets are operating correctly, and the work to be developed with other agencies to improve an integrated plan to address flooding.

Colour coding of actions in tables:

- Green – completed
- Orange – imminent action required
- Red – overdue
- White – on-going actions with no specific end dates or not yet due.



**Table 6.1. Southern Water Current Activities to Reduce Groundwater Infiltration**

<b>Number</b>	<b>Item</b>	<b>Actions</b>	<b>Timescale and Status</b>	<b>Outcomes</b>
1.1	Develop an approach for reduction of infiltration and maintenance of reduced levels of infiltration.	Refer to Section 3 of this IRP.	Summer 2013. Complete	The steps are being followed to deliver results.
1.2	CCTV etc survey of sewers [Step 1 in Fig. 3.1]	Identify strategic manholes, survey manholes to identify clear flow and infiltration. Carry out CCTV survey where clear flow was identified.	May – June 2014. Complete	Sources of high Infiltration identified by the 2014 CCTV surveys have been repaired.
1.3	Carry out sewer rehabilitation work [Step 4 in Fig. 3.1]	Use various techniques to seal infiltration points in manholes and sewers	Longparish: Identified repairs completed in 2011 and 2015/16.  Forton: Some identified repairs completed in 2015.  Forton Rehabilitation work completed in winter 2015/16.	Rehabilitation will restore structural integrity of the sewers.
1.4	Further surveys (CCTV or alternative techniques), if required, in areas of high remaining infiltration.	Targeted surveys to address areas suffering sewer flooding.	Spring 2015. Complete.	Determine scope and carry out further rehabilitation if identified as required from the CCTV survey results.

Number	Item	Actions	Timescale and Status	Outcomes
1.5	Further sewer rehabilitation work, if required, in areas where surveys carried out.	Follow-up repairs.	Winter 2015/16. Completed in February 2016.	Rehabilitation will restore structural integrity of the sewers.
1.86A	Maintain IRP as a live document	Update IRP as appropriate to describe work carried out and/or developments	Annually – on anniversary of EA approval	Up-to-date IRP.
1.6B	Quarterly progress reports	A progress report on infiltration reduction work related to this catchment will be submitted to the Environment Agency	Quarterly (December, March, June, September)	Keep the Environment Agency informed of progress on a regular basis
1.7	Strategy for inflows via private drains (see footnote).	SW to propose a strategy for dealing with infiltration via private drains*	SW, Complete. July 2014.	SW's objective is to improve awareness of the significance of infiltration into private drains and the importance for customers to ensure infiltration is repaired when it is discovered.
1.8	Monitor Flows	SW carry out pre-winter checks and monitor sewer flow to identify significant increases in inflows.	Commenced winter 2014/15. Repeated every winter .	Preparation for winter responses.

Number	Item	Actions	Timescale and Status	Outcomes
1.9	Consider alternative solutions that involve some risk	Investigate unconventional options such as vacuum sewers or consider conventional combined sewer overflows	2020	Ongoing.
1.10	Groundwater treatment Sites: improve effluent quality	Investigate potential for improved screening and basic treatment at points of discharge into watercourse.	SW, 2014. Complete for previously used sites.	Improved arrangements for discharges when required.
1.11	Groundwater treatment Sites: minimise flow	Add level control to pumps to reduce durations for pumping	SW, 2014. Complete.	Minimises volumes of discharge if seasonal discharge(s) are necessary in order to maintain use of sewerage services for customers during periods of very high groundwater levels.
1.12	Standards for emergency discharges	SW to discuss with EA about best practice set up for Groundwater treatment arrangements.	SW, 2014. Complete.	Agree with EA acceptable standards for discharges and acceptable flow rates.
1.13	Flow, location, screening arrangements for emergency discharges	Determine potential flow rates and screening arrangements and most appropriate locations,	SW, 2016. Included in this IRP. Complete.	Agree with EA, HCC and local Parish Councils acceptable arrangements for future emergency discharges.

Number	Item	Actions	Timescale and Status	Outcomes
1.14	Action Plans	Develop SW action plans documenting set up of pumps, tankers, etc. for emergency situations.	SW, Summer 2014. Complete.	Action Plan available for planning sessions with other authorities in preparation for repeat flooding events. Engagement with the local community about the potential arrangements for dealing with excess flows into sewers to mitigate disruption to customers.
1.15	Identification of lengths of sewer to survey or resurvey in the period 2021-25	Review sewer records with available ground water profile data	2022	Complete
1.16	Undertake surveys	Electroscan surveys	2023/24	Complete
1.17	Review survey data and commission sewer sealing	Sewer sealing	Post April 2025	Planned - as informed by step 1.16
1.18	Review effectiveness of any sealing work	Analyse monitoring data and groundwater data to determine benefit of investment	Post 2025	Planned

Table 6.2. Multi-Agency Activities to Reduce Groundwater Infiltration

Number	Item	Actions	Timescale and Status	Outcomes
2.1	Strategy for infiltration via private drains	Southern Water to propose a strategy for dealing with infiltration via private drains*	SW supported by EA and local Parish Councils, Summer/ Autumn 2014. Completed 2014.	Southern Water objective is to improve awareness of the significance of infiltration into private drains and the importance for customers to ensure infiltration is repaired when it is discovered.
2.2a	Investigate highway 'mis-connections'	Where non-sewage flow is identified, check highway drainage relative to sewers to ensure road drainage is not a source of flow into the SW sewers	Hampshire County Council with support from SW, as appropriate if connections are identified. To be pursued as and when required.	Reduced flow of surface water (if connections are found).
2.2b	Investigate groundwater infiltration on domestic drains	Where non-sewage flow is identified from domestic properties, investigate to identify source of flow into SW sewers	SW, with assistance from Test Valley Borough Council as appropriate, if connections are identified. To be pursued as and when required.	Planned for AMP8 post April 2025
2.3	Consider effects of proposed new developments on infiltration.	Borough Council to continue to consult with SW on development applications.	Test Valley Borough Council, Ongoing.	Developments in areas which would be detrimental to sewer flooding, to have conditions recommended by SW and applied, as appropriate, by the District Councils.
		SW to determine threshold above which they require to be consulted.	SW, Ongoing.	

Note: Southern Water does not have powers to require residents to repair private drains. Hence the support of the other agencies is required. It is acknowledged that customers may not be aware of infiltration in their private drains, so SW will consider ways of obtaining information to demonstrate the presence of infiltration. District Councils would only be able to instigate action under Section 59 of the Building Act where proof/evidence is provided of the defect.

**Table 6.3. Publicity / Communication Activities to Reduce / Mitigate the Effects of Groundwater Infiltration.**

<b>Number</b>	<b>Item</b>	<b>Actions</b>	<b>Owner, Timescale and Status</b>	<b>Outcomes</b>
<b>3.1</b>	Public meetings about reducing groundwater infiltration into sewerage system	Attend public meetings with other agencies as appropriate	SW, Regular meetings are not planned, but SW will attend with other agencies as required.	Inform stakeholders of progress and planned activities and receive feedback.
<b>3.2</b>	Communications from SW to stakeholders about reducing groundwater infiltration into the sewerage system.	Send e-mails at regular intervals to communicate progress on sewer rehab activities.	SW, ongoing as required.	Inform stakeholders of progress and planned activities
<b>3.3</b>	Liaise with other agencies as appropriate.	Discuss and agree actions to reduce requirements for tankering	All parties, as required.	Improved understanding and appreciation of issues. Agreement to actions to help reduce the need for tankering.

\*\* SW can provide base information to councils to include in articles publicising the role that everyone can play in minimising non-sewage flows into sewers, and the importance of doing so to reduce the incidence of restricted toilet use during periods of high groundwater.

**Table 6.4. Activities to Mitigate the Effects of Groundwater Infiltration/ Other Flood Protection Mechanisms**

Number	Item	Actions	Owner, Timescale and Status	Outcomes
4.1	Early Warning system	Monitoring of winter groundwater levels and sewer levels/flows, using EA borehole data. Discuss with EA in weekly calls (when groundwater levels are high).	SW, 2014. Ongoing. Commenced Jan 2015. Re-commenced Sept 2015.	Develop trigger levels by comparing historic customer complaints and tankering with BH levels (or other reference). Note trigger levels should vary as a consequence of rehabilitation. Also they will need to reflect groundwater reaction times.
4.2	Tankering arrangements	Investigate options for improving location of tankers for future events. e.g. by use of longer hoses/ pumping	SW, Spring 2014. Complete	Potentially less disruption to residents when tankering.
4.3	Integrated approach to Mitigate effects of groundwater flooding	Attendance at multi-agency meetings and developing multi-agency actions to reduce the effects of groundwater flooding	Hampshire County Council with inputs from SW, EA and Parish/District Councils.	Actions for participating authorities that in unison will reduce flooding and / or the impact of flooding.

# Appendix

A	Survey Findings and Completed and Planned Rehabilitation
B	Mitigation Measures